OIPE JC71
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PATENT & TRADEMARK OFFICE

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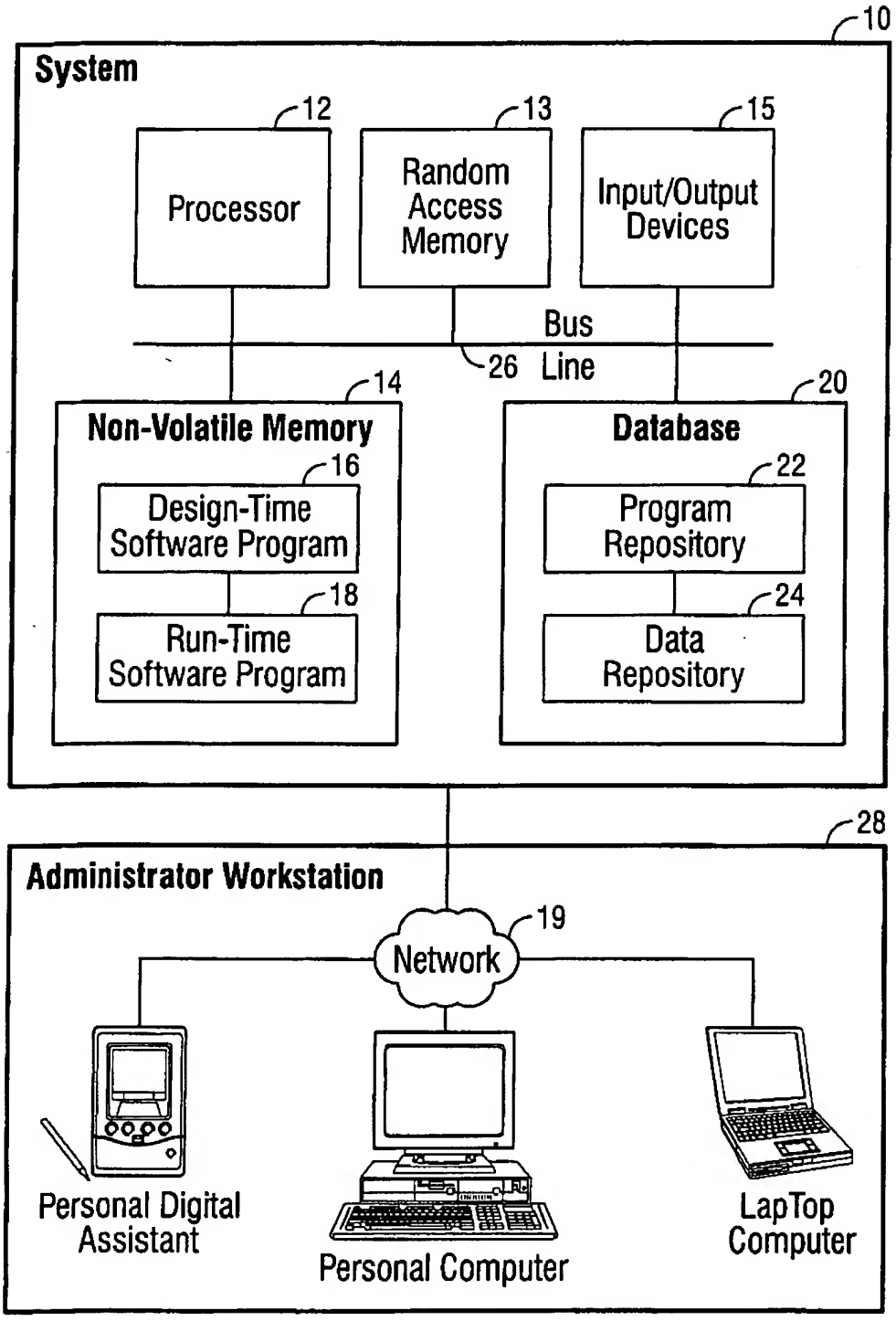

FIG. 1

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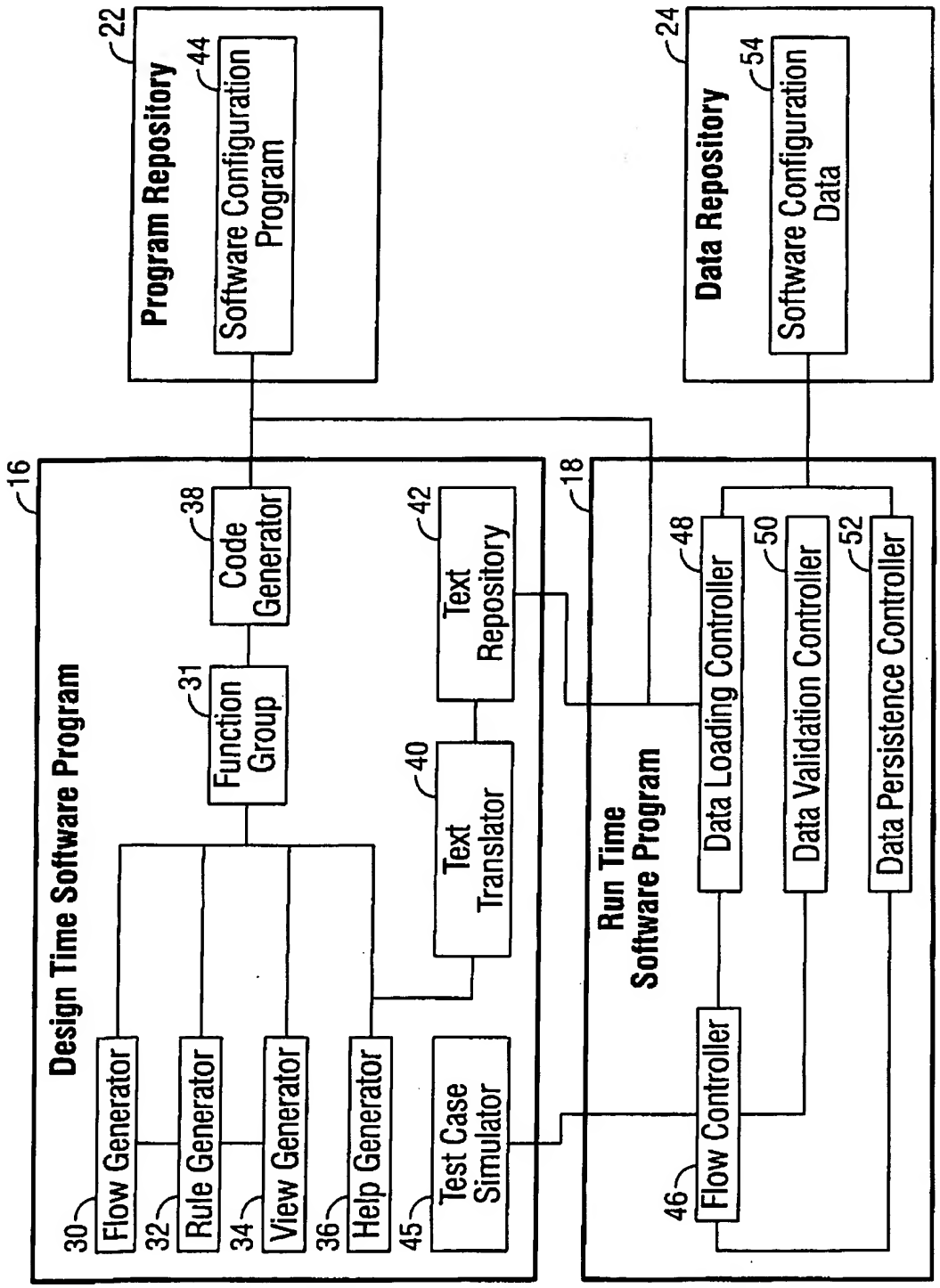
22
Program Repository
44
Software Configuration Program
24
Data Repository
54
Software Configuration Data
16
Design Time Software Program
38
Code Generator
31
Function Group
42
Text Repository
40
Text Translator
30
Flow Generator
32
Rule Generator
34
View Generator
36
Help Generator
45
Test Case Simulator
18
Run Time Software Program
48
Data Loading Controller
50
Data Validation Controller
52
Data Persistence Controller
46
Flow Controller

FIG. 2

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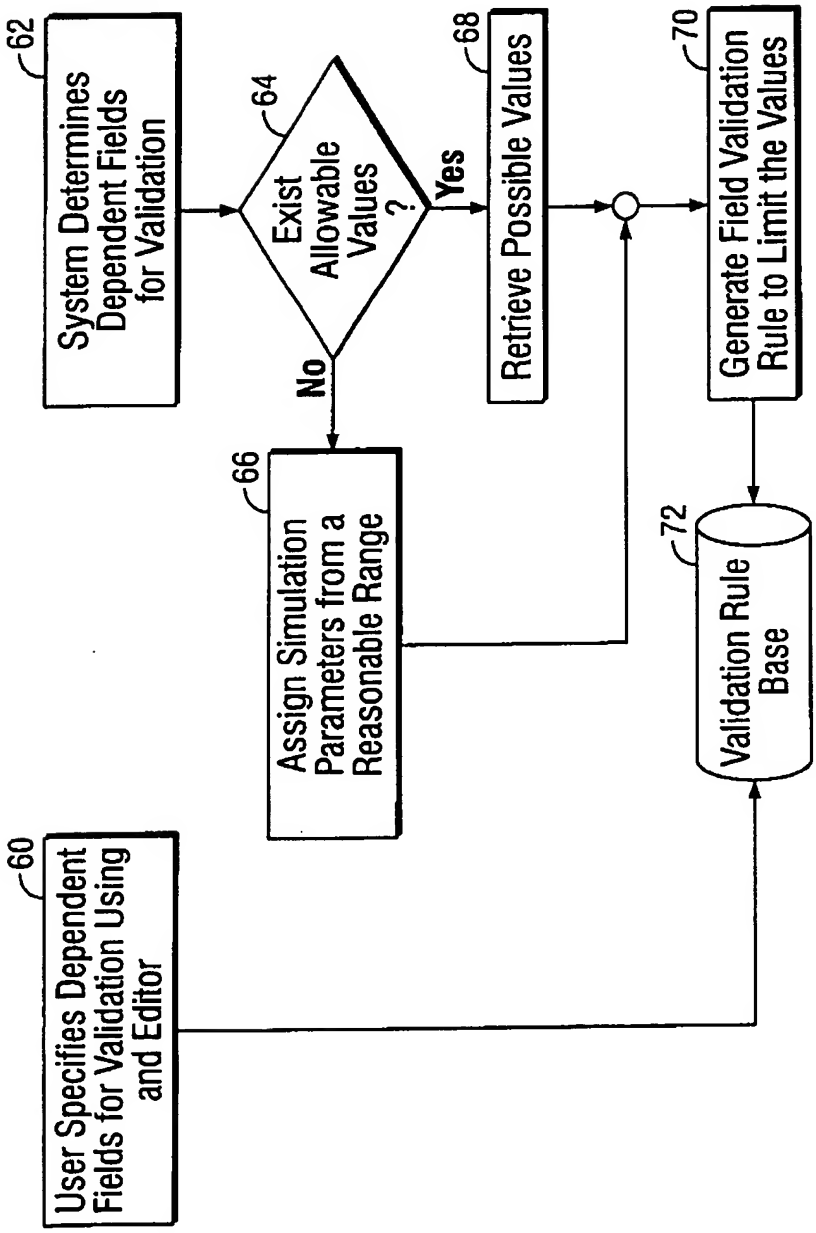
62
System Determines Dependent Fields for Validation
64
Exist Allowable Values ?
Yes
No
68
Retrieve Possible Values
70
Generate Field Validation Rule to Limit the Values
66
Assign Simulation Parameters from a Reasonable Range
72
Validation Rule Base
60
User Specifies Dependent Fields for Validation Using and Editor

FIG. 3

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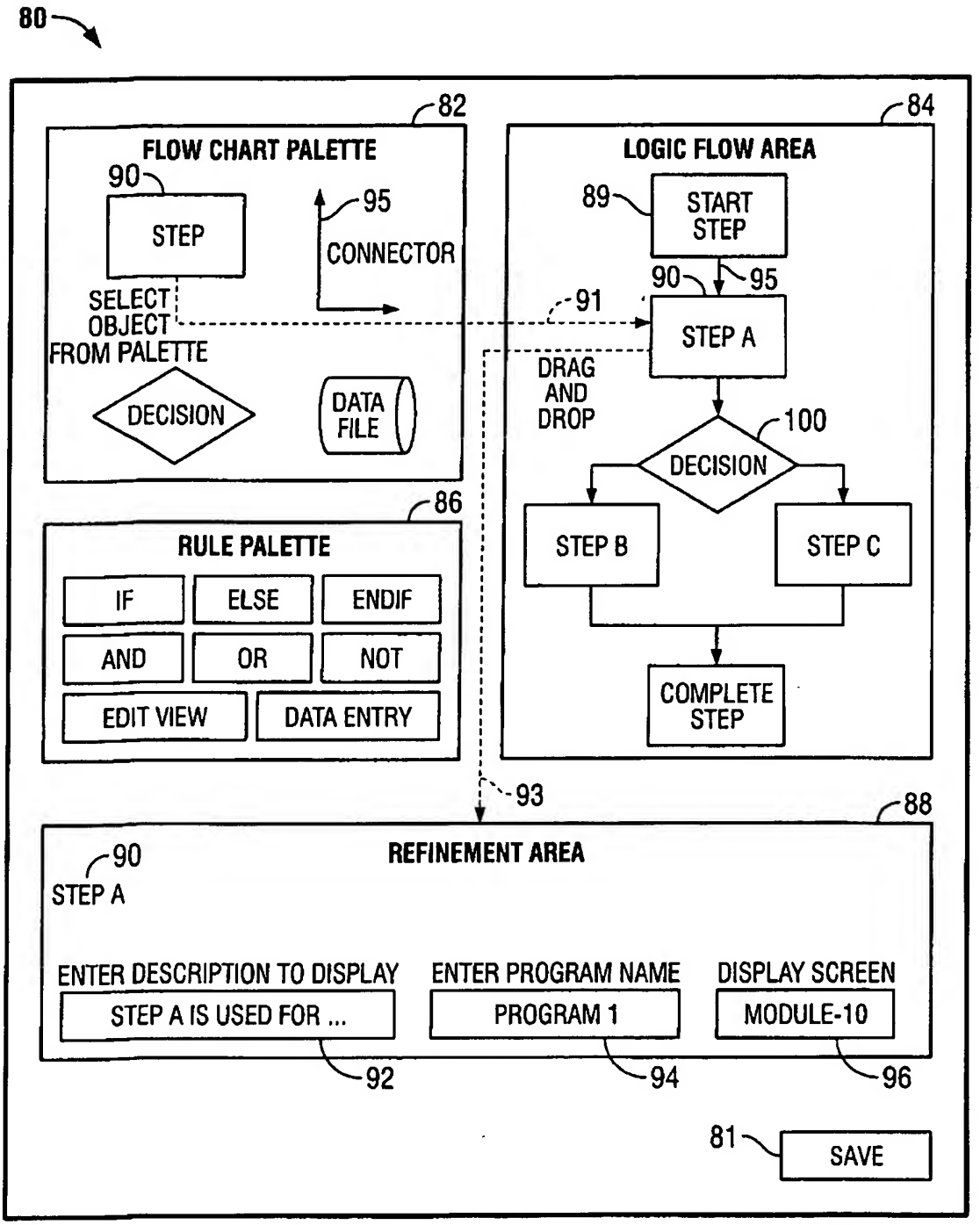
80
82
FLOW CHART PALETTE
90
STEP
95
CONNECTOR
SELECT OBJECT FROM PALETTE
DECISION
DATA FILE
84
LOGIC FLOW AREA
89
START STEP
90
95
91
STEP A
DRAG AND DROP
100
DECISION
STEP B
STEP C
COMPLETE STEP
86
RULE PALETTE
IF
ELSE
ENDIF
AND
OR
NOT
EDIT VIEW
DATA ENTRY
93
88
REFINEMENT AREA
90
STEP A
ENTER DESCRIPTION TO DISPLAY
STEP A IS USED FOR ...
ENTER PROGRAM NAME
PROGRAM 1
DISPLAY SCREEN
MODULE-10
92
94
96
81
SAVE

FIG. 4

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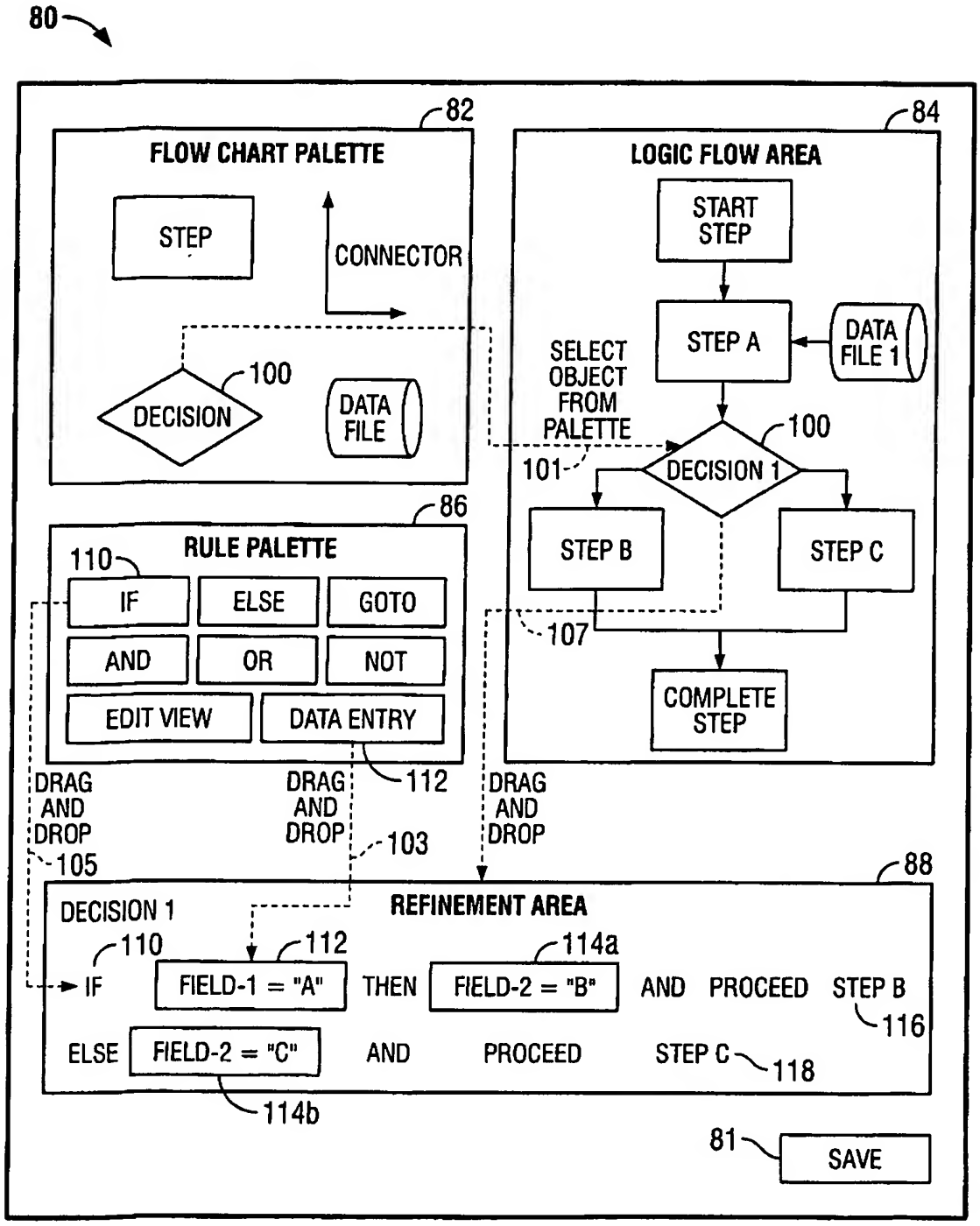
80
82
FLOW CHART PALETTE
STEP
CONNECTOR
100
DECISION
DATA FILE
84
LOGIC FLOW AREA
START STEP
STEP A
DATA FILE 1
SELECT OBJECT FROM PALETTE
101
100
DECISION 1
STEP B
STEP C
107
COMPLETE STEP
86
RULE PALETTE
110
IF
ELSE
GOTO
AND
OR
NOT
EDIT VIEW
DATA ENTRY
112
DRAG AND DROP
105
DRAG AND DROP
103
DRAG AND DROP
88
DECISION 1
REFINEMENT AREA
110
112
114a
IF
FIELD-1 = "A"
THEN
FIELD-2 = "B"
AND
PROCEED
STEP B
116
ELSE
FIELD-2 = "C"
AND
PROCEED
STEP C
118
114b
81
SAVE

FIG. 5